

## FIG. 1

1 GAGGTCCAGC TTCAGCAGTC TGGACCTGAC CTGGTGAAGC CTGGGGCTTC  
 E V Q L Q Q S G P D L V K P G A S  
 51 AGTGAAGATA TCCTGCAAGG CTTCTGGTTA CTCATTCACT GGCTACTACA  
 V K I S C K A S G Y S F T G Y Y  
 101 TGCACTGGGT GAAGCAGAGC CATGGAAAGA GCCTTGAGTG GATTGGACGT  
 M H W V K Q S H G K S L E W I G R  
 151 ATTAATCCTA ACAATGGTGT TACTCTCTAC AACCAGAAAT TCAAGGACAA  
 I N P N N G V T L Y N Q K F K D K  
 201 GGCCATATTA ACTGTAGACA AGTCATCCAC CACAGCCTAC ATGGAGCTCC  
 A I L T V D K S S T T A Y M E L  
 251 GCAGCCTGAC ATCTGAGGAC TCTGCGGTCT ATTACTGTGC AAGATCTACT  
 R S L T S E D S A V Y Y C A R S T  
 301 ATGATTACGA ACTATGTTAT GGACTACTGG GGTCAAGTAA CCTCAGTCAC  
 M I T N Y V M D Y W G Q V T S V T  
 351 CGTCTCCTCA GGTGGTGGTG GGAGCGGTGG TGGCGGCACT GGCGGCGGCG  
 V S S G G G G S G G G G T G G G  
 401 GATCTAGTAT TGTGATGACC CAGACTCCCA CATTCTGCT TGTTTCAGCA  
 G S S I V M T Q T P T F L L V S A  
 451 GGAGACAGGG TTACCATAAC CTGCAAGGCC AGTCAGAGTG TGAGTAATGA  
 G D R V T I T C K A S Q S V S N D  
 501 TGTAGDTTGG TACCAACAGA AGCCAGGGCA GTCTCCTACA CTGCTCATAT  
 V A W Y Q Q K P C Q S P T L L I  
 551 CCTATACATC CAGTCGCTAC GCTGGAGTCC CTGATCGCTT CATTGGCAGT  
 S Y T S S R Y A G V P D R F I G S  
 601 GGATATGGGA CGGATTTCAC TTTCACCATC AGCACTTTGC AGGCTGAAGA  
 G Y G T D F T F T I S T L Q A E D  
 651 CCTGGCAGTT TATTTCTGTC AGCAAGATTA TAATTCTCCT CCGACGTTTC  
 L A V Y F C Q Q D Y N S P P T F  
 701 GTGGAGGCAC CAAGCTGGAA ATCAAACGG  
 G G G T K L E I K R

## FIG. 2

ATGGGCCACA CACGGAGGCA GGGAACATCA CCATCCAAGT GTCCATACCT 50  
 M G H T R R Q G T S P S K C P Y L  
 CAATTTCTTT CAGCTCTTGG TGCTGGCTGG TCTTTCTCAC TTCTGTTGAG 100  
 N F F Q L L V L A G L S H F C S  
 GTGTTATCCA CGTGACCAAG GAAGTGAAAG AAGTGGCAAC GCTGTCCTGT 150  
 G V I H V T K E V K E V A T L S C  
 GGTCACAATG TTTCTGTTGA AGAGCTGGCA CAAACTCGCA TCTACTGGCA 200  
 G H N V S V E E L A Q T R I Y W Q  
 AAAGGAGAAG AAAATGGTGC TGACTATGAT GTCTGGGGAC ATGAATATAT 250  
 K E K K M V L T M M S G D M N I  
 GGCCCGAGTA CAAGAACCGG ACCATCTTTG ATATCACTAA TAACCTCTCC 300  
 W P E Y K N R T I F D I T N N L S  
 ATTGTGATCC TGGCTCTGCG CCCATCTGAC GAGGGCACAT ACGAGTGTGT 350  
 I V I L A L R P S D E G T Y E C V  
 TGTTCGAAG TATGAAAAAG ACGCTTTCAA GCGGGAACAC CTGGCTGAAG 400  
 V L K Y E K D A F K R E H L A E  
 TGACGTTATC AGTCAAAGCT GACTTCCCTA CACCTAGTAT ATCTGACTTT 450  
 V T L S V K A D F P T P S I S D F  
 GAAATTCCAA CTTCTAATAT TAGAAGGATA ATTTGCTCAA CCTCTGGAGG 500  
 E I P T S N I R R I I C S T S G G  
 TTTTCCAGAG CCTCACCTCT CCTGGTTGGA AAATGGAGAA GAATTAAATG 550  
 F P E P H L S W I F N G E E L N  
 CCATCAACAC AACAGTTTCC CAAGATCCTG AACTGAGCT CTATGCTGTT 600  
 A I N T T V S Q D P E T E I Y A V  
 AGCAGCAAAC TGGATTTCAA TATGACAACC AACCACAGCT TCATGTGTCT 650  
 S S K L D F N M T T N H S F M C L  
 CATCAAGTAT GGACATTTAA GAGTGAATCA GACCTTCAAC TGGAATACAA 700  
 I K Y G H L R V N Q T F N W N T  
 CCAAGCAAGA GCATTTTCCT GATGGAGGCG GGGGATCCGA GGTCCAGCTT 750  
 T K Q E H F P D G G G G S E V Q L

1000  
 900  
 800  
 700  
 600  
 500  
 400  
 300  
 200  
 100  
 0

CAGCAGTCTG GACCTGACCT GGTGAAGCCT GGGGCTTCAG TGAAGATATC 800  
 Q Q S G P D L V K P G A S V K I S  
 CTGCAAGGCT TCTGGTTACT CATTCACTGG CTACTACATG CACTGGGTGA 850  
 C K A S G Y S F T G Y Y M H W V  
 AGCAGAGCCA TGGAAAGAGC CTTGAGTGGG TTGGACGTAT TAATCCTAAC 900  
 K Q S H G K S L E W I G R I N P N  
 AATGGTGTGA CTCTCTACAA CCAGAAATTC AAGGACAAGG CCATATTAAC 950  
 N G V T L Y N Q K F K D K A I L T  
 TGTAGACAAG TCATCCACCA CAGCCTACAT GGAGCTCCGC AGCCTGACAT 1000  
 V D K S S T T A Y M E L R S L T  
 CTGAGCACTC TGCGGTCTAT TACTGTGCAA GATCTACTAT GATTACGAAC 1050  
 S E D S A V Y Y C A R S T M I T N  
 TATGTTATGG ACTACTGGGC TCAAGTAACC TCAGTCACCG TCTCCTCAGG 1100  
 Y V M D Y W G Q V T S V T V S S G  
 TGGTGGTGGG AGCGGTGGTG GCGGCACTGC CCGCGGCGGA TCTAGTATTG 1150  
 G G G S G G G G T G G G G S S I  
 TGATGACCCA GACTCCACCA TTCCTGCTTG TTTCAGCAGG AGACACCCTT 1200  
 V M T Q T P T F L L V S A G D R V  
 ACCATAACCT GCAAGGCCAG TCAGAGTGTG AGTAATGATG TAGCTTGGTA 1250  
 T I T C K A S Q S V S N D V A W Y  
 CCAACAGAAG CCAGGGCAGT CTCCTACACT GCTCATATCC TATACATCCA 1300  
 Q Q K P G Q S P T L L I S Y T S  
 GTCGCTACGC TGGAGTCCCT GATCGCTTCA TTGGCAGTGG ATATGGGACG 1350  
 S R Y A G V P D R F I G S G Y G T  
 GATTTCACTT TCACCATCAG CACTTTGCAG GCTGAAGACC TGGCAGTTTA 1400  
 D F T F T I S T L Q A E D L A V Y  
 TTTCTGTCAG CAAGATTATA ATTCTCCTCC GACGTTCGGT GGAGGCACCA 1450  
 F C Q Q D Y N S P P T F G G G T  
 AGCTGGAAAT CAAATAA  
 K L E I K .

FIG. 2<sub>CONT'D</sub>

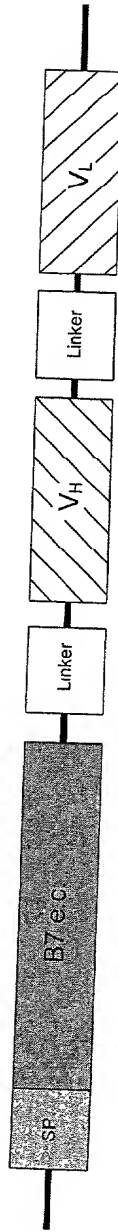


FIG. 3a

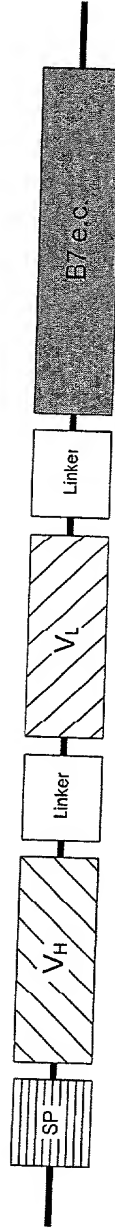


FIG. 3b

1 ATGGGACTGA GTAACATTCT CTTTGTGATG GCCTTCCTGC TCTCTGGTGC  
 M G L S N I L F V M A F L L S G A  
 51 TGCTCCTCTG AAGATTCAAG CTTATTTCAA TGAGACTGCA GACCTGCCAT  
 A P L K I Q A Y F N E T A D L P  
 101 GCCAATTTGC AAACCTCTCAA AACCAAAGCC TGAGTGAGCT AGTAGTATTT  
 C Q F A N S Q N Q S L S E L V V F  
 151 TGGCAGGACC AGGAAAACCTT GGTTCCTGAAT GAGGTATACT TAGGCAAAGA  
 W Q D Q E N L V L N E V Y L G K E  
 201 GAAATTTGAC AGTGTTCATT CCAAGTATAT GGGCCGCACA AGTTTGTATT  
 K F D S V H S K Y M G R T S F D  
 251 CGGACAGTTG GACCCTGAGA CTTACAATC TTCAGATCAA GGACAAGGGC  
 S D S W T L R L H N L Q I K D K G  
 301 TTGTATCAAT GTATCATCCA TCACAAAAAG CCCACAGGAA TGATTTCGCAT  
 L Y Q C I I H H K K P T G M I R I  
 351 CCACCAGATG AATTCTGAAC TGTCAGTGCT TGCTAACTTC AGTCAACCTG  
 H Q M N S E L S V L A N F S Q P  
 401 AAATAGTACC AATTTCTAAT ATAACAGAAA ATGTGTACAT AAATTTGACC  
 E I V P I S N I T E N V Y I N L T  
 451 TGCTCATCTA TACACGGTTA CCCAGAACCT AAGAAGATGA GTGTTTTGCT  
 C S S I H G Y P E P K K M S V L L  
 501 AAGAACCAAG AATTCAACTA TCGAGTATGA TGGTATTATG CAGAAATCTC  
 R T K N S T I E Y D G I M Q K S  
 551 AAGATAATGT CACAGAACTG TACGACGTTT CCATCAGCTT GTCTGTTTCA  
 Q D N V T E L Y D V S I S L S V S  
 601 TTCCCTGATG TTACGAGCAA TATGACCATC TTCTGTATTC TGGAAACTGA  
 F P D V T S N M T I F C I L E T D  
 651 CAACACCCGG CTTTTATCTT CACCTTTCTC TATAGAGCTT GAGGACCCTC  
 K T R L L S S P F S I E L E D P  
 701 AGCCTCCCCC AGACCACATT CCTGGAGGCG GGGGATCC  
 Q P P P D H I P G G G G S

FIG. 4

FIG. 5

```

atggcttgca attgtcagtt gatgcaggat acaccactcc tcaagtttcc atgtccaagg 60
ctcattcttc tctttgtgct gctgattcgt ctttcacaag tgtcttcaga tgttgatgaa 120
caactgtcca agtcagtgaa agataaggta ttgctgcctt gccgttacaa ctctccgcat 180
gaagatgagt ctgaagaccg aatctactgg caaaaacatg acaaagtggg gctgtctgtc 240
attgctggga aactaaaagt gtggcccgag tataagaacc ggactttata tgacaacact 300
acctactctc ttatcactct gggcctggtc ctttcagacc ggggcacata cagctgtgtc 360
gttcaaaaga aggaaaqaqg aacgtatqaa gttaaacact tggctttagt aaagttgtcc 420
atcaaagctg acttctctac cccaacata actgagtctg gaaacccatc tgcagacact 480
aaaaggatta cctgctttgc ttccgggggt ttcccaaagc ctgcttctc ttggttgaa 540
aatggaagag aattacctgg catcaatacg acaatttccc aggatcctga atctgaattg 600
tacaccatta gtacccaact agatttcaat acgactegca accacaccat taagtgtctc 660
attaaatatg gagatgctca cgtgtcagag gacttcacct gggaaaaacc ccagaaagac 720
cctcctgata gcaagcccg ggggtggtgg agcgggtggtg gcggcagtg cggcggcgga 780
actagtgagg tccagcttca gcagtctgga cctgacctgg tgaagcctgg ggcttcagt 840
aagatctccl gcaaggcttc tggttactca ttcactggct actacatgca ctgggtgaag 900
cagagccatg gaaagagcct tgagtggatt ggacgtatta atcctaacaa tgggtgttact 960
ctctacaacc agaaattcaa ggacaaggcc atattaactg tagacaagtc atccaccaca 1020
gcctacatgg agctccgcag cctgacatct gaggactctg cgggtctatta ctgtqcaaqa 1080
tctactatga ttacgaacta tgttatggac tactggggtc aagtaacttc agtcaccgtc 1140
tcttcaggtg gtggtgggag cgggtggtggc ggcactggcg gcggcggatc tagtattgtg 1200
atgacccaga ctcccacatt cctgcttgtt tcagcaggag acagggttac cataacctgc 1260
aaggccagtc agagtgtgag taatgatgta gcttggtacc aacagaagcc agggcagtc 1320
cctacactgc tcatatccta tacatccagt cgtacgctg gagtcctga tcgcttcatt 1380
ggcagtgga atgggacgga tttcactttc accatcagca ctttgaggc tgaagacctg 1440
gcagtttatt tctgtcagca agattataat tctcctccga cgttcggtg aggcaccaag 1500
ctggaaatca aacggtaa

```

# FIG. 6

Leader / 5T4 scFv / HlgG DNA and deduced protein sequence

```

CTCGAGCCACCATGGGATGGAGCTGTATCATCCTCTTCTTGGTAGCAACAGCTACAGGTGCCACTCCGAGGTCCAGCTG
M G W S C I I L F L V A T A T G V H S E V Q L

CAGCAGCTGCGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATATCCTGCAAGGCTTCTGGTTACTCATTCACTGG
Q Q S G P D L V K P G A S V K I S C K A S G Y S F T

CTACTACATGCACTGGGTGAAGCAGAGCCATGGAAGAGCCTTGAGTGGATTGGACGTATTAATCCTAACAATGGTGTTA
G Y Y M H W V K Q S H G K S L E W I G R I N P N N G V

CTCTCTACAACCAGAAATTCAAGGACAAGGCCATTAACCTGTAGACAAGTCATCCACCACAGCCTACATGGAGCTCCGC
T L Y N Q K F K D K A I L T V D K S S T T A Y M E L R

AGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCTACTATGATTACGAACTATGTTATGGACTACTGGGG
S L T S E D S A V Y Y C A R S T M I T N Y V M D Y W

TCAGTAACCTTCAATCACCGTCTCTTCAGGTGGTGGTGGGAGCGGTGGTGGCGGCACTGGCGGCGGCGGATCTAGATTG
G Q V T S V T V S S G G G G S G G G G T G G G G S S I

TGATGACCCAGACTCCACATTCCTGCTTGTTCAGCAGGAGACAGGTTACCATAACCTGCAAGGCCAGTCAGAGTGTG
V M T Q T P T F L L V S A G D R V T T T C K A S Q S V

AGTAATGATGTAGCTTGGTACCAACAGAAGCCAGGGCAGTCTCCTACACTGCTCATATCCTATACATCCAGTCGCTACGC
S N D V A W Y Q Q K P G Q S P T L L I S Y T S S R Y

TCCAGTCCCTCATCGCTTCATTGGCAGTGGATATGGGACGGATTTCACCTTCACCATCAGCACITTCAGGGCTGAAGACC
A G V P D R F I G S G Y G T D F T F T I S T L Q A E D

TGGCAGTTTATTCTGTGTCAGCAAGATTATAATTCTCCTCCGACGTTCCGGTGGAGGCCACCAAGCTTGAAATCAAACGGGCC
L A V Y F C Q Q D Y N S P P T F G G G T K L E I K R A

TCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCT
S T K G P S V F P L A P S S K S T S G G T A A L G C

GGTCAAGGACTACTTCCCGAACCGGTGACGCTGTCTGTGAAGTCAAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGG
L V K D Y F P E P V T V S W N S G A L T S G V H T F P

CTGTCCTACAGTCCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCTCCAGCAGCTTGGGCACCCAGACCTAC
A V L Q S S G L Y S S V V T V P S S S L G T Q T Y

ATCTGCAACGTGAATCACAAGCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCAAATCTTGTGACAAAACCTACAC
I C N V N H K P S N T K V D K K V E P K S C D K T H

ATGCCACCGTGGCCAGCACCTGAATCCTGGGGGGACCGTCAGTCTTCTCTTCCCCCAAAACCAAGGACACCCCTCA
T C P P C P A P E L L G G P S V F L F P P K P K D T L

TGATCTCCCGACCCCTGAGGTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCCTGAGGTCAAGTTCAACTGGTAC
M I S R T P E V T C V V V D V S H E D P E V K F N W Y

GTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAGCGT
V D G V E V H N A K T K P R E E Q Y N S T Y R V V S

CCTCACCGTCCCTGCACAGGACTGGCTGAATGGCAAGGAGTACAAGTGAAGGTCTCCAACAAGCCCTCCAGCCCCCA
V L T V L H Q D W L N G K E Y F C K V S N K A L P A P

TCGAGAAAACCATCTCCAAGCCAAAGGGCAGCCCCGAGAACACAGGTGTACACCTGCCCCCATCCCGGGATGAGCTG
I E K T I S K A K G Q P R E P Q V Y T L P P S R D E M

ACCAAGAACCAGGTGAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGG
T K N Q V S L T C L V K G F Y P S D I A V E W E S N

GCAGCCGAGAGAACACTACAAGACACGCTCCCGTGTGGACTCCGACGCTCCTTCTCTCTATAGCAAGCTCACCG
G Q P E N N Y K T T P P V L D E D G S F F L Y S K L T

TGACAAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAAACCACTACACGAG
V D K S R W Q Q G N V F S C S V M H E A L H N H Y T Q

AAGAGCCTCTCCCTCTCCCGGGTAAATGACTCGAG
K S L S L S P G K

```

## FIG. 7

```

ctcgagccac catgggatgg agctgtatca tctcttctt ggtagcaaca gctacaggtg 60
tccactccga ggtccagctg cagcagctcg gacctgacct ggtgaagcct ggggcttcag 120
tgaagataac ctgcaaggct tctggttact cattcactgg ctactacatg cactgggtga 180
agcagagcca tggaaagagc cttgagtggg ttggacglaa laalccclaac aatggtgtta 240
ctctctacaa ccagaaatcc aaggacaagg ccatattaac tgtagacaag tcattccacca 300
cagcctacat ggagctccgc agcctgacat ctgaggactc tgcggtctat tactgtgcaa 360
gatctactat gattacgaac tatgttatgg actactgggg tcaagtaact tcagtcaccg 420
tctcttcagg tgggtgggg agcgggtggg gcggcactgg cggcggcgga tctagtattg 480
tgatgacca gactcccaca ttctgcttg ttccagcagg agacagggtt accataacct 540
gcaaggccag tcagagtgtg agtaatgatg tagcttggtg ccaacagaag ccaggggcagt 600
ctcctacact gctcatatcc tatacatcca qtcgctacgc tggagtccct gatcgcttca 660
ttggcagtgq atatgggacg gatttcactt tcaccatcag cactttgcag gctgaagacc 720
tggcagttta ttctgtcag caagattata attctctccc gacgttcggt ggaggacca 780
agcttgaaat caaacgggccc tcacacaga gccatccgt ctcccccctg acccgctgct 840
gcaaaaacat tccctccaat gccacccctcg tgaactctggg ctgcctggcc acgggctaact 900
tcccgagacc ggtgatggtg acctgggaca caggctccct caacgggaca actatgacct 960
taccagccac caccctcag ctctctggtc actatgccac catcagcttg ctgacctct 1020
cgggtgctg gggcaagcag atgttcacct gccgtgtggc acacactcca tctccacag 1080
aclyyylyca caacaaaacc ttcagcgtct gctccaggga ctccaccccg cccaccgtga 1140
agatcttaca gtctcctgc gacggcgcg ggcaactccc ccgaccatc cagctcctgt 1200
gcctcgtctc tgggtacacc ccagggacta tcaacatcac ctggctggag gacgggcagg 1260
tcatggagct ggacttgtcc accgcctcta ccacgcagga gggtagctg gcctccacac 1320
aaagcgagct caccctcagc cagaagcact ggctgtcaga ccgcacctac acctgccagg 1380
tcacctatca aggtcacacc tttaggaca gcaaccaaga gtgtgcagat tccaacccga 1440
gaggggtgag cgcctacct aagcggccca gccggttcca cctgttcac cgaagtccg 1500
ccacgatcac ctgtctggtg gtggacrtgg rrrrcagcaa ggggacctg aacctgacct 1560
ggtcccgggc cagtgggaag cctgtgaacc actccaccag aaaggaggag aagcagcgca 1620
atggcacgtt aaccgtcacg tccaccctgc cgggtggcac ccgagactgg atcgaggggg 1680
agaccttaca gtgcaggggtg acccacccc acctgcccag ggcctcatg cggtcacga 1740
ccaagccag cggcccgct getcccccg aagtlalylc ylllycyay cygyalggc 1800
cggggagccg ggacaagcgc acctcgcct gcctgatcca gaacttcag cctgaggaca 1860
tctcggtgca gtggctgcac aacaggtgc agctcccga cggccggcac agcacgacgc 1920
agcccgcaa gaccaagggc tccggcttct tctgttccag ccgctggag gtgaccagg 1980
ccgaatggga gcagaaagat gagtctcatc gccgtgcagt ccatgaggca gcgagccct 2040
cacagaccgt ccagcgagcg gtgtctgtaa atcccgtaa atgagagctc 2090

```

## FIG. 8

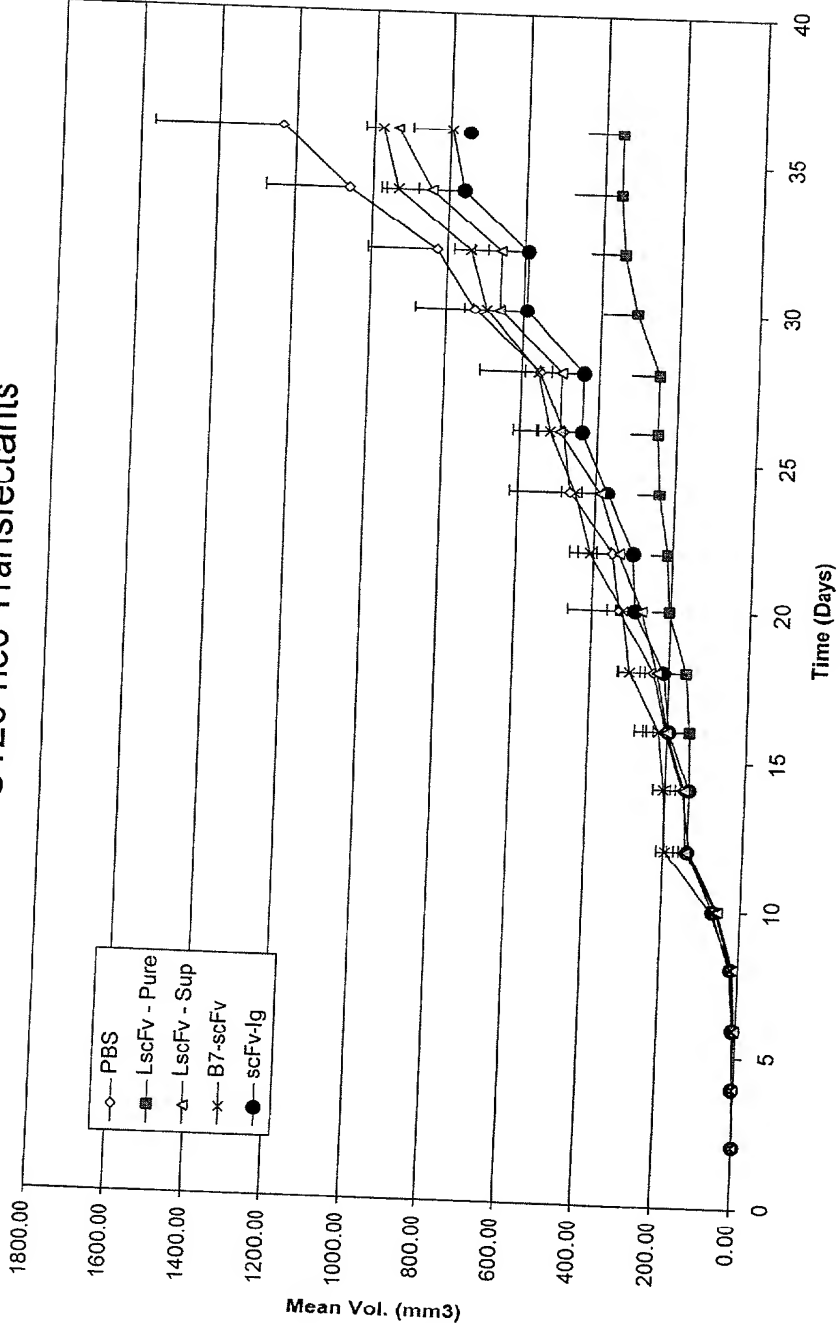
```

atggcttgca attgtcagtt gatgcaggat acaccactcc tcaagtttcc atgtccaagg 60
ctcattcttc tctttgtgct gctgattcgt ctttcacaag tgtcttcaga tgttgatgaa 120
caactgtoca agtcagtgaa agataaggta ttgctgcctt gccgttacaa ctctccgcat 180
gaagatgagt ctgaagaccg aatcactgg caaaaacatg acaaagtggg gctgtctgtc 240
attgtctgga aactaaaagt gtggcccgag tataagaacc ggactttata tgacaacact 300
acctactctc ttatcactct gggcctggtc ctttcagacc ggggcacata cagctgtgtc 360
grrcaaaaga aggaaagagg aacgtatgaa gttaaacact tggctttagt aaagtgtgoc 420
atcaaagctg acttctctac ccccaacata actgagtctg gaaacccatc tgcagacact 480
aaaaggatta cctgctttgc ttccgggggt ttcccaaaag ctcgcttctc ttggttgaa 540
aatggaagag aattacctgg catcaatacg acaatttccc aggatcctga atctgaattg 600
tacaccatta gttagccact agatttcaal acyaulcyca accacacual laagtgtctc 660
attaaatatg gagatgctca cgtgtcagag gacttcacct gggaaaaacc ccagaagac 720
cctcctgata gcaagcccg ggtgtgggg agcgggtggg gcggcagtg cggcggcgga 780
actagtaata gtgactctga atgtcccctg tcccacgatg ggtactgcct ccatgatggg 840
gtgtgcatgt atattgaagc attggacaag tatgcatgca actgtgttct tggctacatc 900
ggggagcgat gtcagtaccg agacctgaag tgggtgggaa tgcgc 945

```



FIG. 9  
CT26-neo Transfectants



**FIG. 10**  
CT26-h5T4 Transfectants

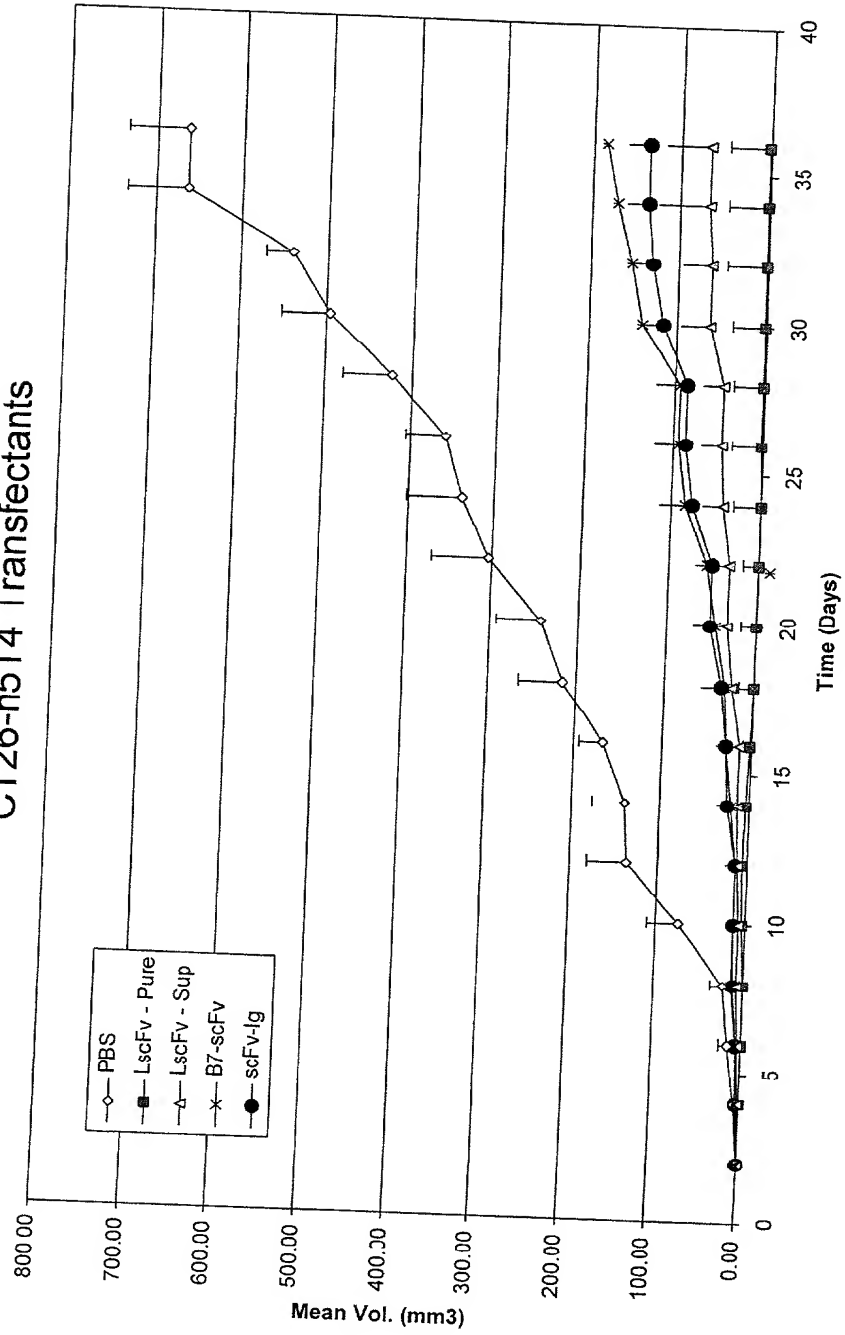
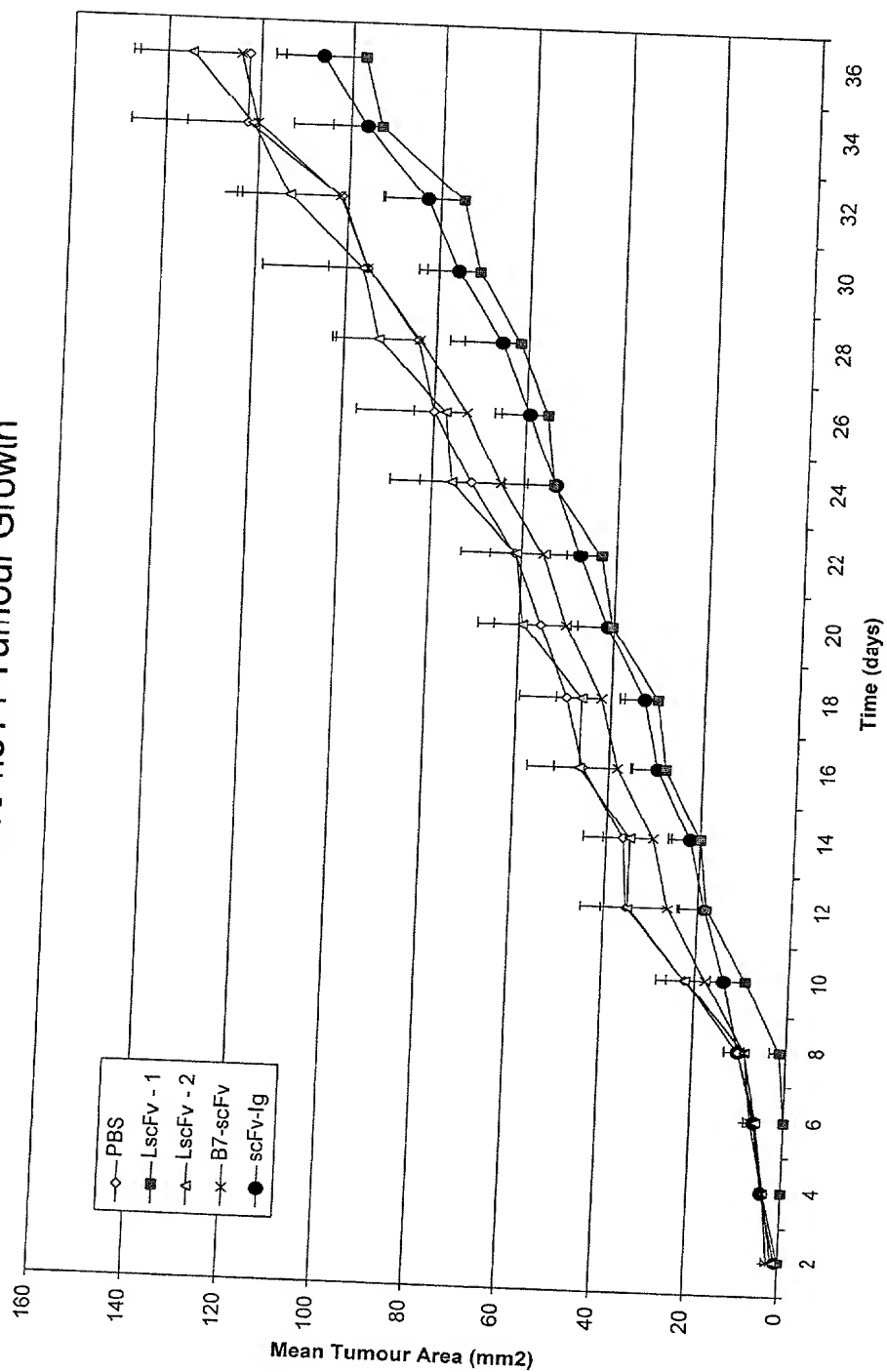
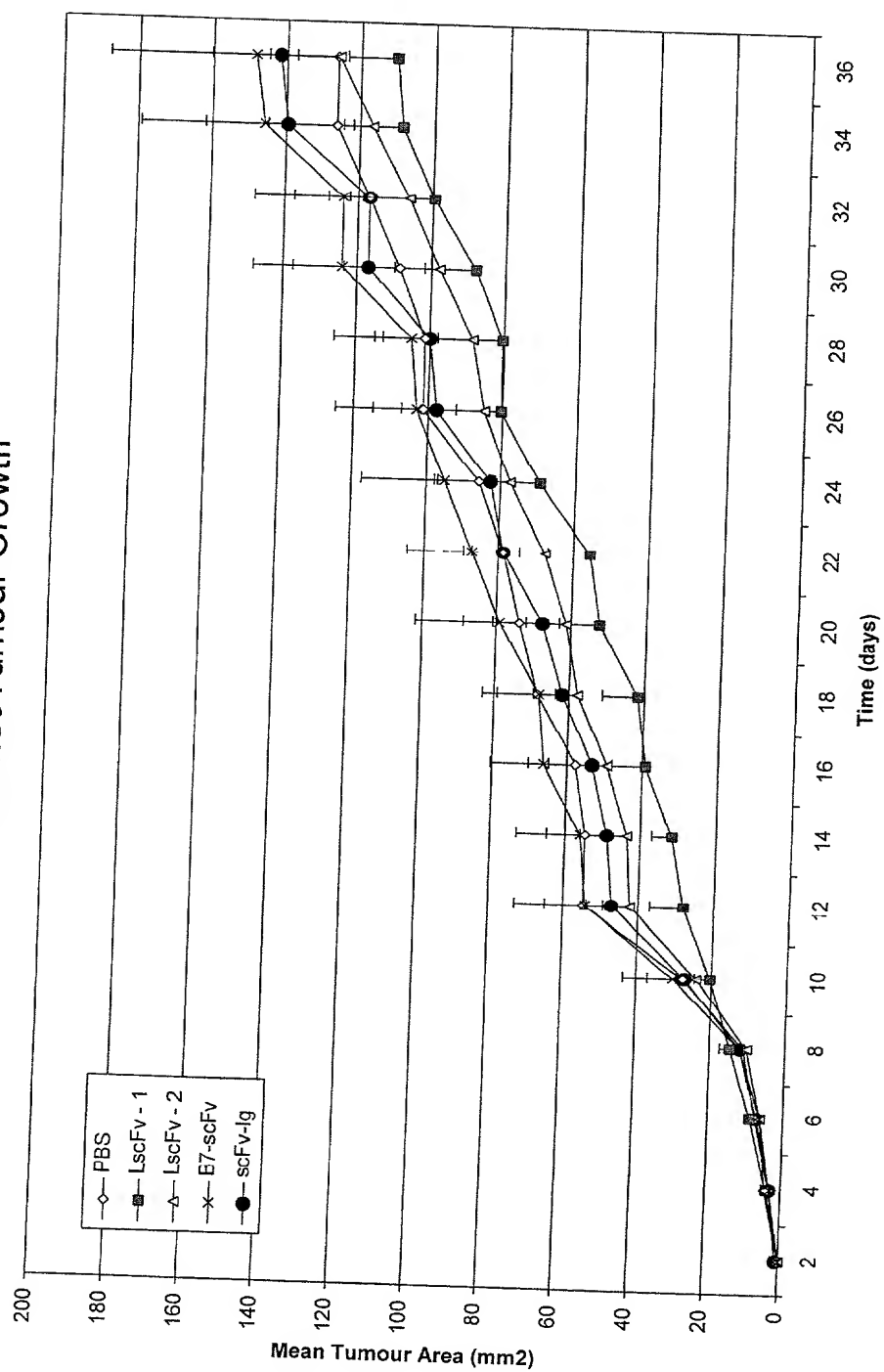


FIG. 11  
B16-h5T4 Tumour Growth



**FIG. 12**  
**B16-neo Tumour Growth**



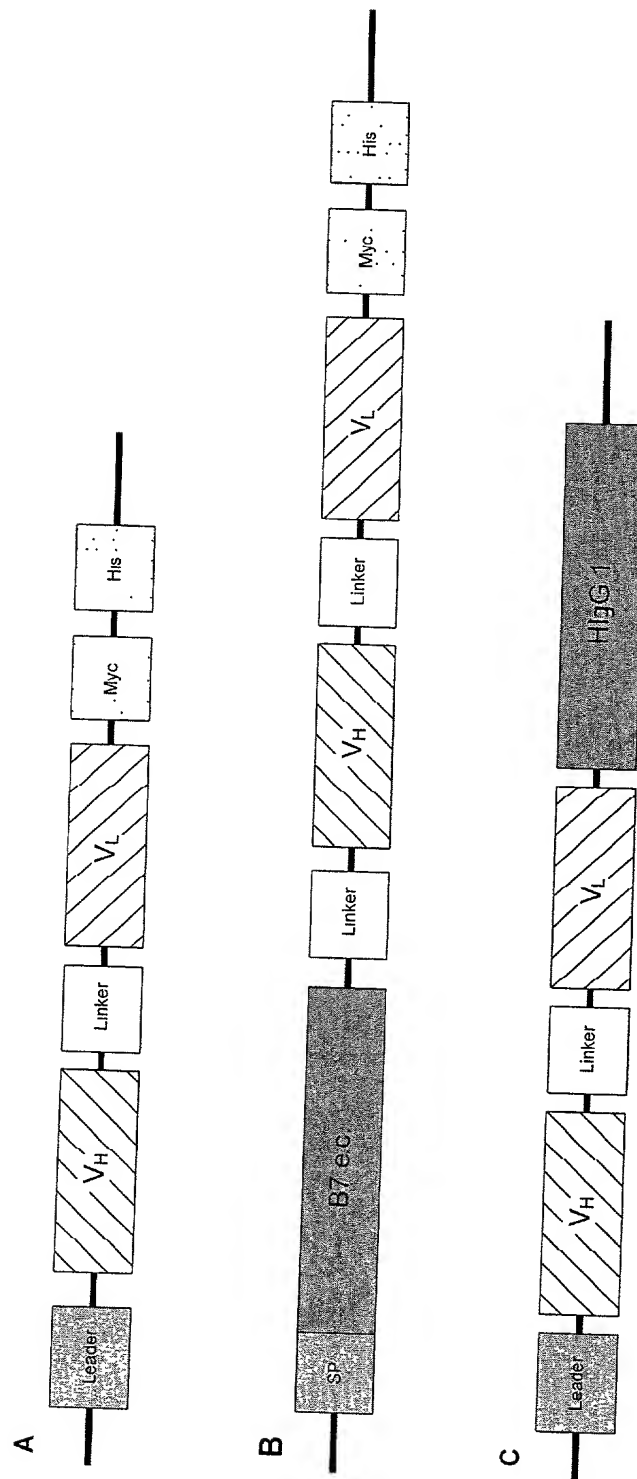


FIG. 13

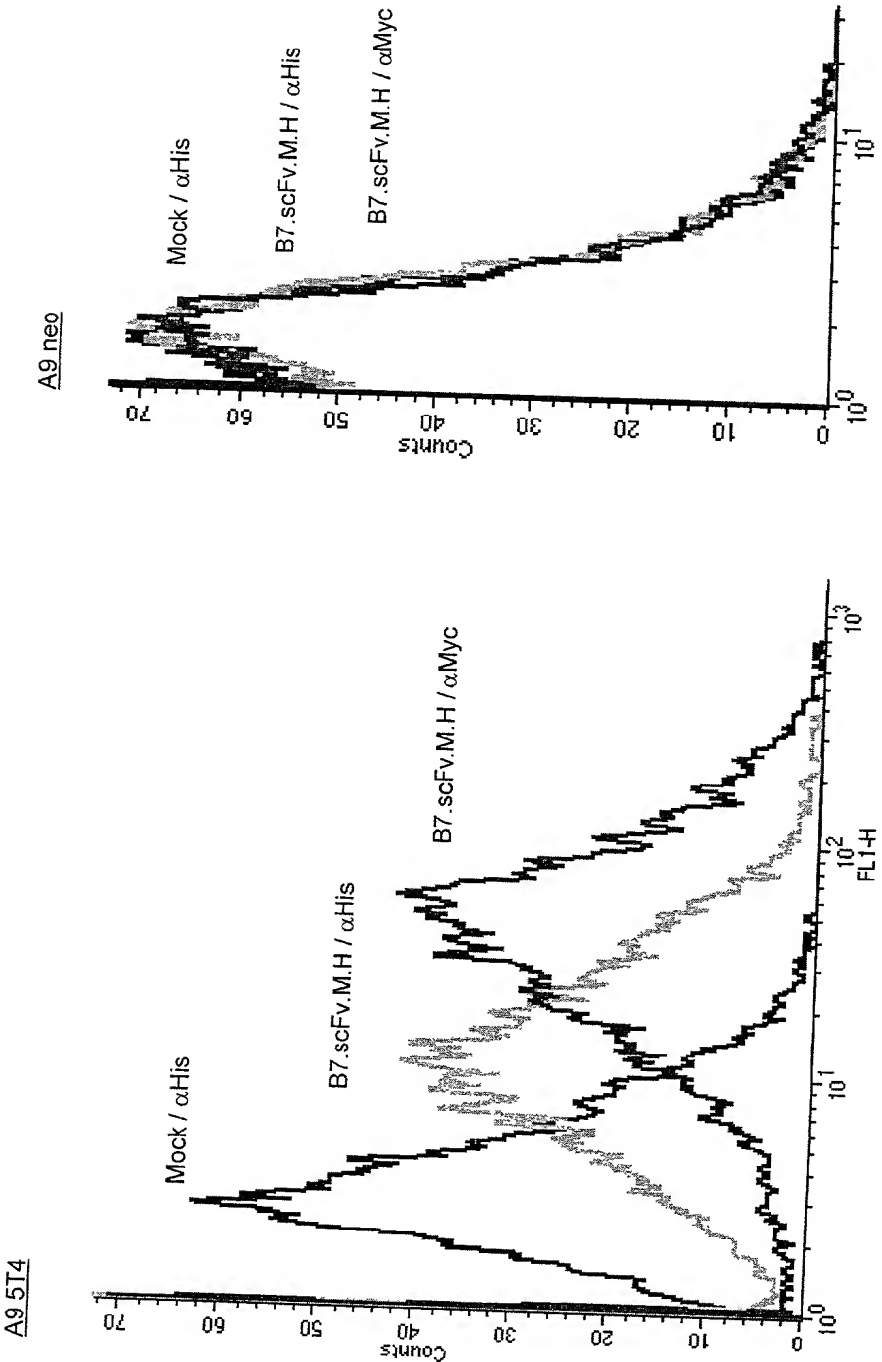
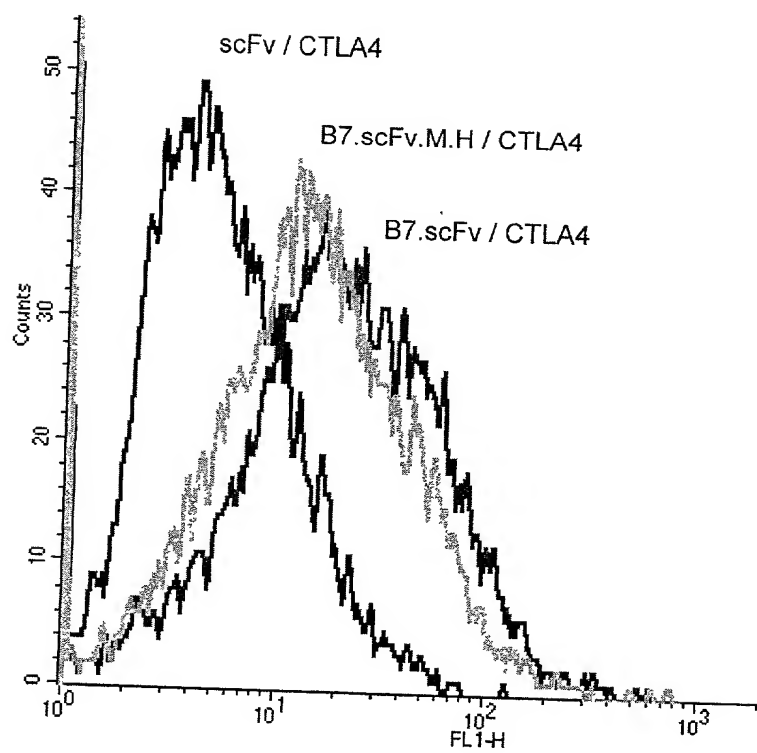


FIG. 14

FIG. 15

A9 5T4

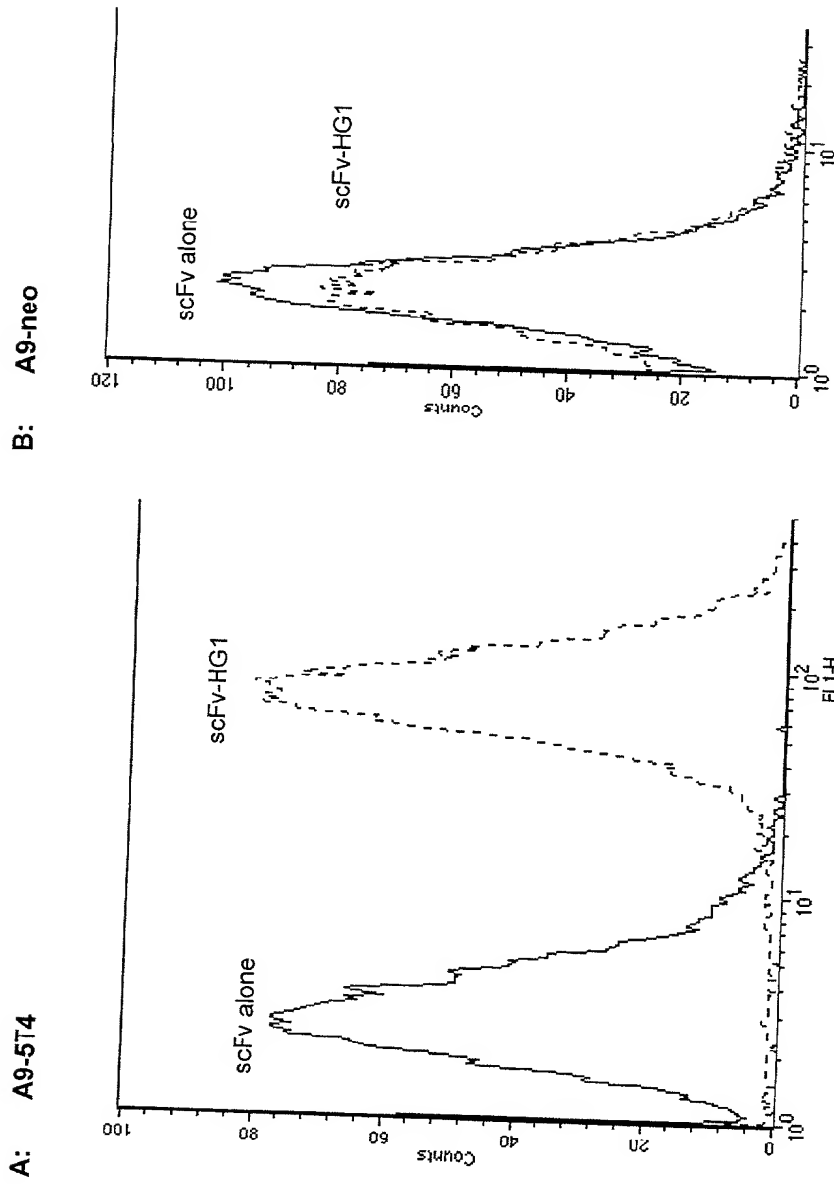


FIG. 16



FIG. 17

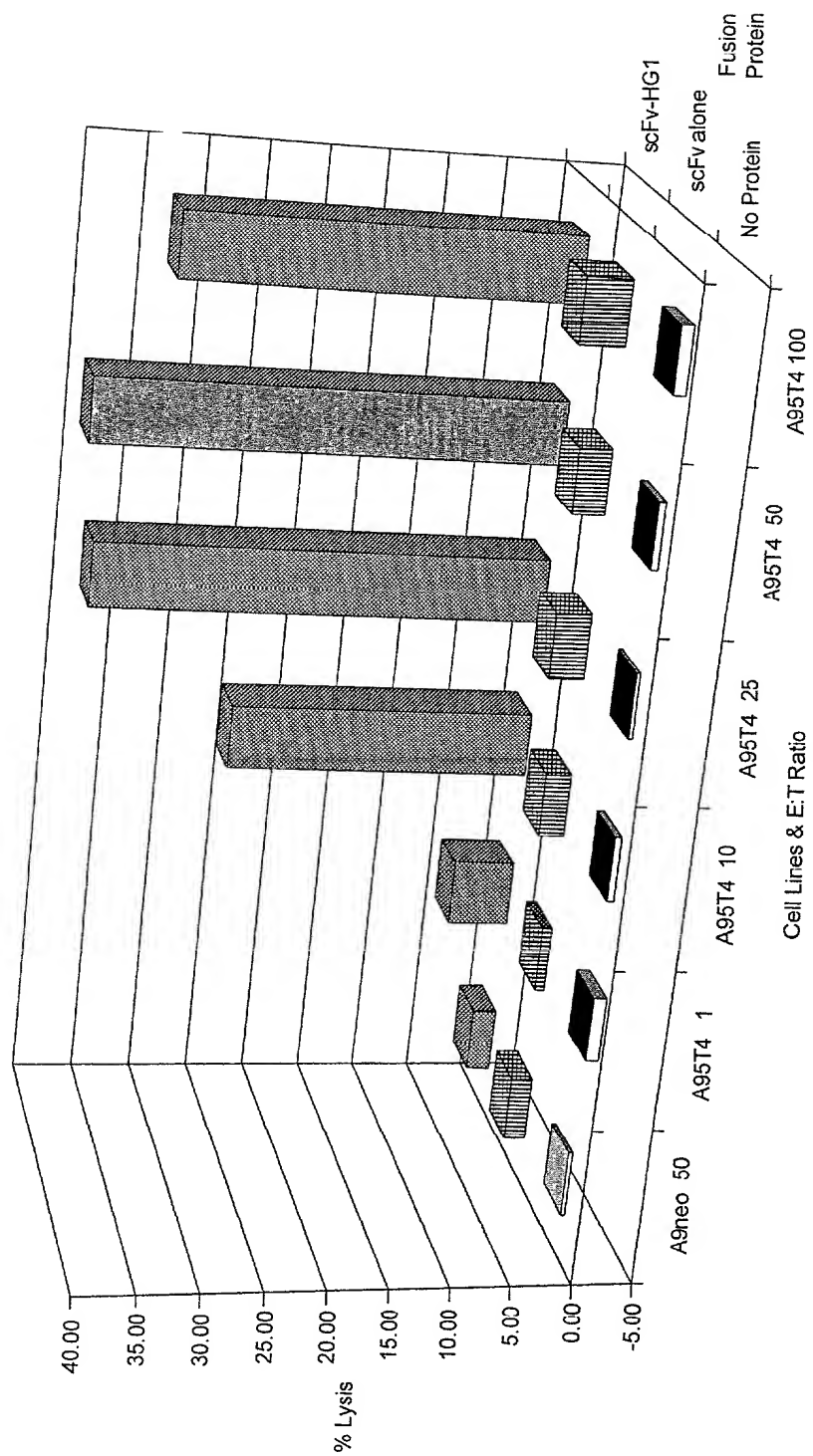
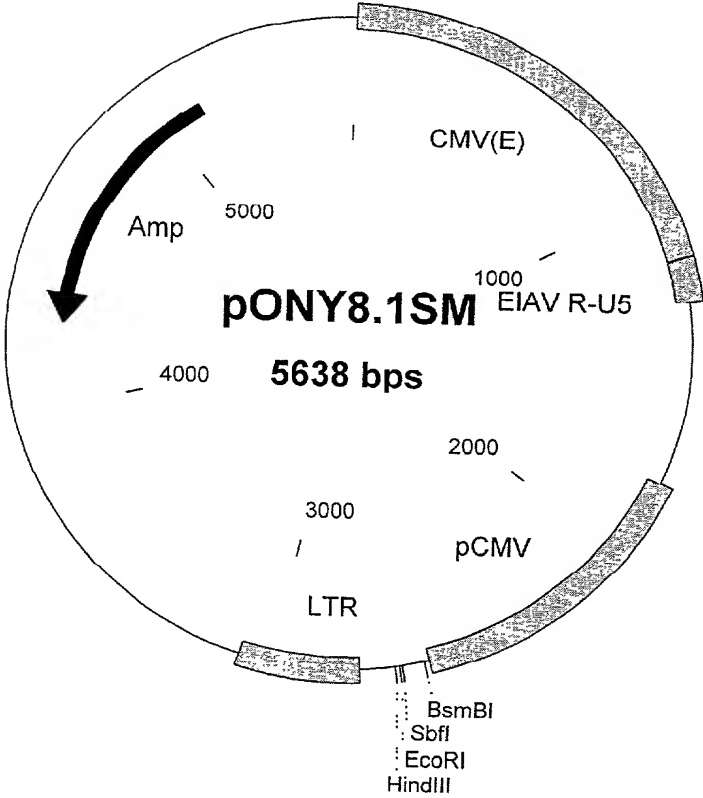
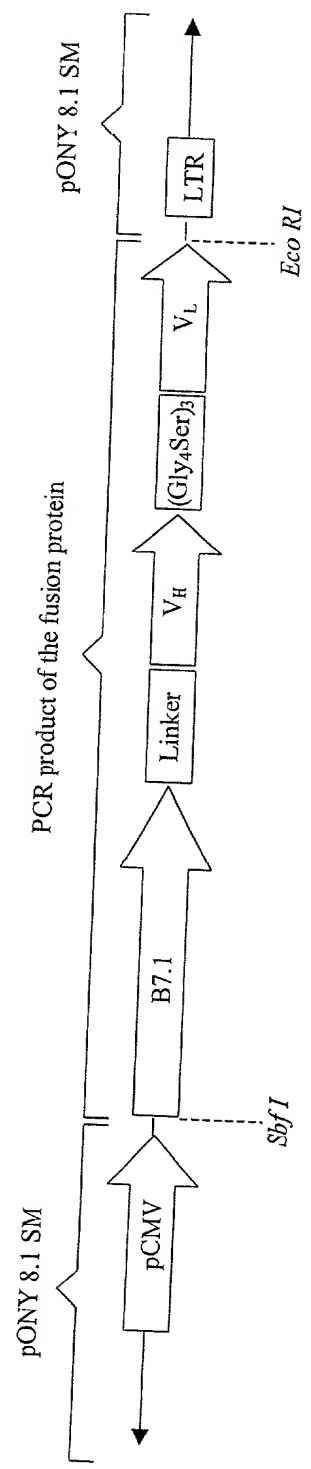


FIG. 18  
pONY8.1SM

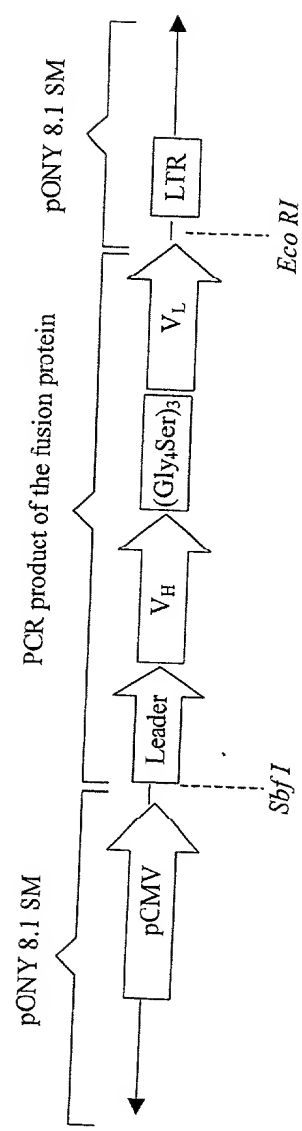


**FIG. 19**  
FUSION PROTEIN CONSTRUCTS IN pONY 8.1 SM

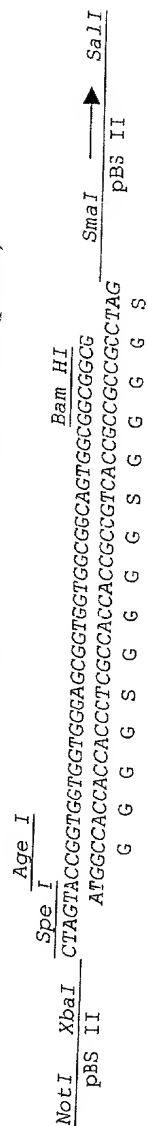
A. B7-5T4scFv



B. L-5T4scFv



pKLink – the (Gly<sub>4</sub>Ser)<sub>3</sub> linker in pBluescript II SK (pBS II)



### An scFv and leader sequence in pBSII

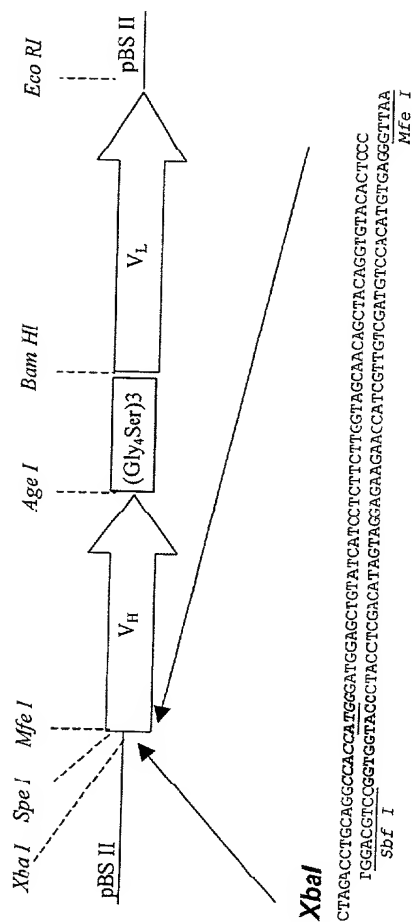


FIG. 22

Leader-II-5 scFv in pONY 8.1SM

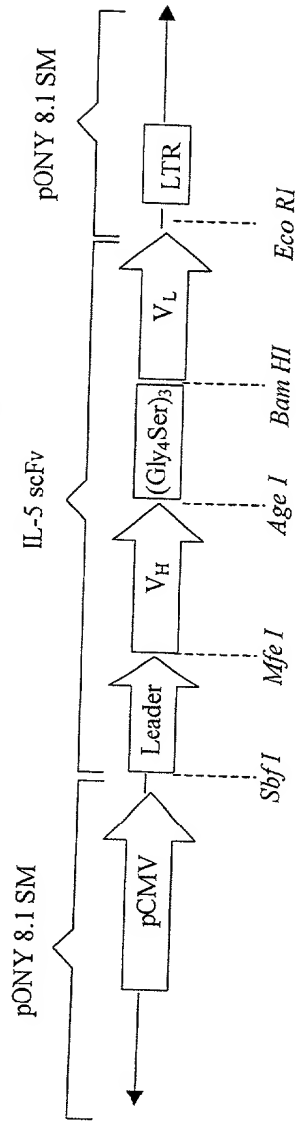
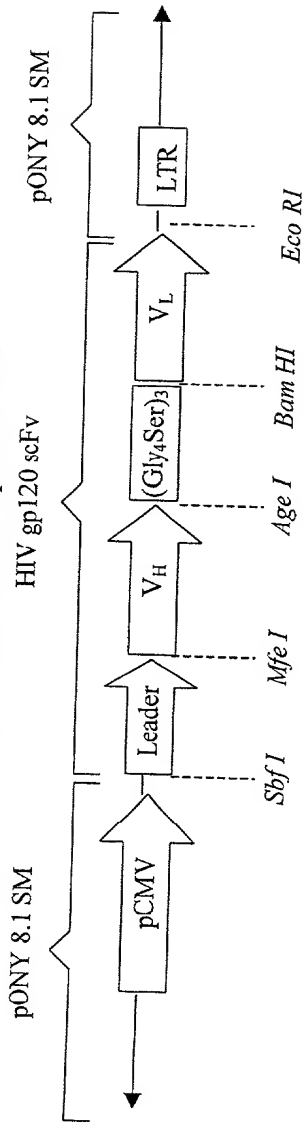


FIG. 23

Leader-HIV gp120 scFv in pONY 8.1SM



**FIG. 24**  
pAdApt

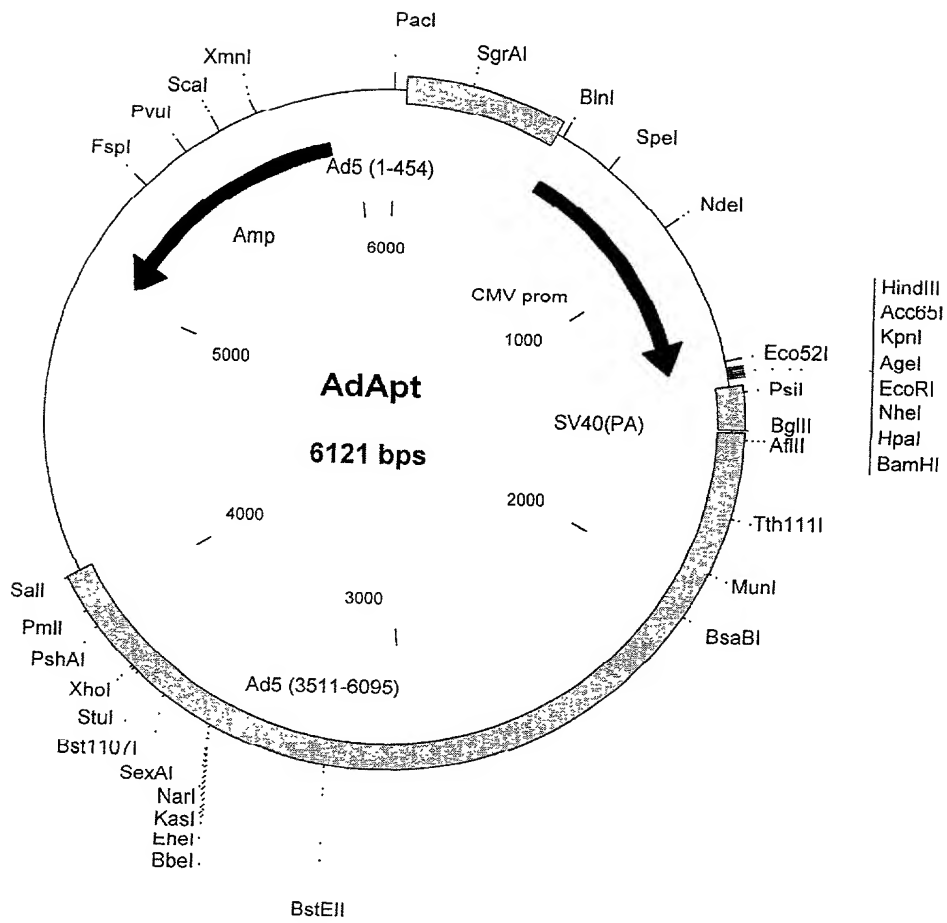
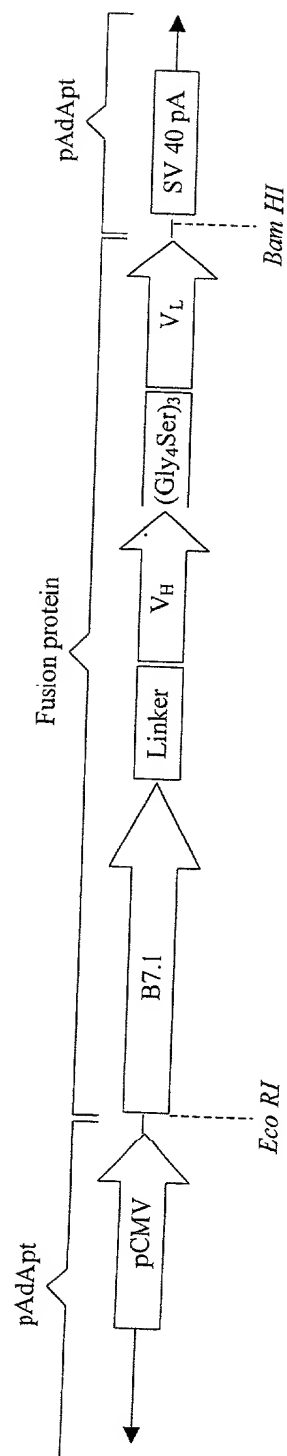


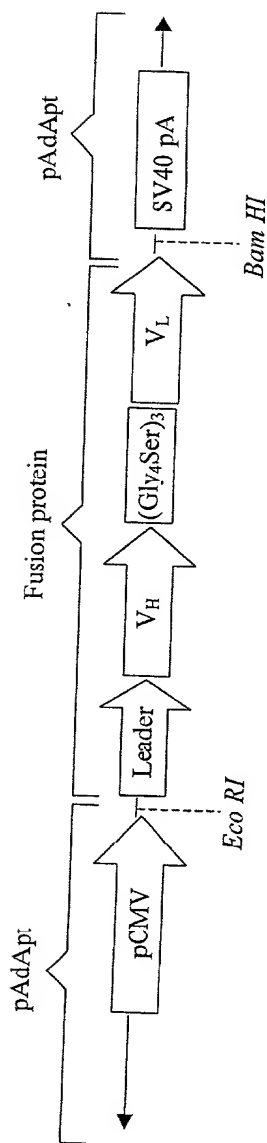
FIG. 25

FUSION PROTEIN CONSTRUCTS IN pAdApt

A. B7-5T4scFv



B. L-5T4scFv



## FIG. 26

## Canine 5T4 Coding Sequence

ATGCCTGGGGGGTGTCTCCCGGGGCCCCGCCGCGGGGACGGGCGGTTGCGGCTGGCGCGGCTGGCGCTGGTGCTCCTGGG 80  
 M P G G C S R G P A A G D G R L R L A R L A L V L L  
 CTGGGTCTCCTCGTCTCGTCACTCCTGGGCGCCCTCCGCGCCGCTCCACGTGCGCGCGGCTCCGCGGCGTCCG 160  
 G W V S S S S L T S W A P S A A A S T S P P A S A A S  
 CCCC GCCCGCTGCGGGCCAGTGCCCCCAGCCTTGCAGTGCTCGGAGGCGGCGCGCACGGTCAAGTGCCTTAACCGC 240  
 A P P P L P G Q C P Q P C E C S E A A R T V K C V N R  
 AACCTGACCGAGGTGCCCGCGACCTGCCCCCTACGTGCGCAACCTCTTCTCAGGGCAACCGCTGGCGGTGCTGCC 320  
 N L T E V P A D L P F Y V R N L F L T G N Q L A V L  
 CCCC GCGCCTTCGCCCCCGGCGCGCTGGCCGAGCTGGCCGCGCTCAACCTGAGCGGCAGCAGCCTGCGGGAGGTGT 400  
 P P G A F A R R P P L A E L A A L N L S G S S L R E V  
 GCGCGGCGCCTTCGAGCACCTGCCAGCCTGCGCCAGCTCGACCTCAGCCACAACCGCTGGGCAACCTCAGCGCCTTC 480  
 C A G A F E H L P S L R Q L D L S H N P L G N L S A F  
 GCCTTCGCGGCGAGCGACGCCAGCGCTCGGGCCCCAGCCCCCTGGTGGAGCTGATGCTGAACACATCGTGCCCCCGGA 560  
 A F A G S D A S R S G P S P L V E L M L N H I V P P  
 CGACCGGCGGAGAACCGGAGCTTCGAGGCGATGGTGGCGGCTGCCCTCCGAGCGGCGCGCGCTTCGCGGGCTGCAGT 640  
 D D R R Q N R S F E G M V A A A L R A G R A L R G L Q  
 GCCTGGAGCTGGCGGCAACCGCTTCTCTACTTGCCTCGCGACGTCTGGCCAGCTACCCGGCCTCCGGCACCTGGAC 720  
 C L E L A G N R F L Y L P R D V L A Q L P G L R H L D  
 CTGCGCAACAACTCCCTGGTGAGCCTCACCTACGTGTCTTCCGCAACCTGACGCACTTGGAGAGCCTCCACCTGGAGGA 800  
 L R N N S L V S L T Y V S F R N L T H L E S L H L E  
 CAACGCCCTCAAGGTCCTTCACAACGCCACCCTGGCGGAGCTGCAGAGCCTGCCCCACGTCCGGGTCTTCTGGACAACA 880  
 D N A L K V L H N A T L A E L Q S L P H V R V F L D N  
 ACCCTGGGTCTGCGATTGTACATGGCAGACATGGTGGCCTGGCTCAAGGAGACAGAGGTGGTGGCGGGCAAAGCCGGG 960  
 N P W V C D C H M A D M V A W L K E T E V V P G K A G  
 CTCACCTGTGCATTCCCGGAGAAAATGAGGAATCGGGCCCTCTTGGAACTCAACAGCTCCACCTGGACTGTGACCTTAT 1040  
 L T C A F P E K M R N R A L L E L N S S H L D C D P  
 CCTCCCTCCATCCCTGCAGACTTCTTATGTCTTCTAGGTATTGTCTTAGCCTGATAGGCGCATCTTCTACTGTTT 1120  
 I L P P S L Q T S Y V F L G I V L A L I G A I F L L V  
 TGTATTGTAACCGCAAGGGGATAAAGAAGTGGATGCATAACATCAGAGATGCCTGCAGGGATCACATGGAAGGGTATCAC 1200  
 L Y L N R K G I K K W M H N I R D A C R D H M E G Y H  
 TACAGATACGAAATCAATGCAGACCCAGGTTAACAAACCTCAGTTCCAATTGGATGTCTGA 1263  
 Y R Y E I N A D P R L T N L S S N S D V .